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**PHOTOGRAPHIC  
INTERPRETATION  
REPORT**

**NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER**

**AIR WARNING/EARLY WARNING  
RADAR FACILITIES  
NORTH KOREA**

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**JUNE 1973**

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## ABSTRACT

1. This report cites 19 air warning and early warning radar sites in North Korea which have been identified on KEYHOLE and GIANT SCALE photography. It contains two location maps, three photographs, and a table.

## INTRODUCTION

2. Although additional radar sites are listed in the PACOM Electronics Order of Battle (EOB), PA 280-1-3A-72INT, Volume 3 (SECRET) [redacted] this report is only concerned with the 19 sites (Figure 1 and Table 1) which have been identified on KEYHOLE and GIANT SCALE photography available through December 1972. 25X1

3. During 1972, North Korea's air warning and early warning capability was improved by the addition of six new sites. The expansion included TALL KING, TOKEN, and BAR LOCK radars. Table 1 is a complete listing of the electronics order of battle seen through December 1972 at each of the 19 sites and includes six air warning facilities which were described in a previous NPIC report.<sup>1/</sup>

## BASIC DESCRIPTION

4. The deployment of three TALL KING radars in 1972 significantly improved the early warning capability of North Korea. Previously, this type of radar had never been deployed in North Korea and these were first identified on photography [redacted] 25X1 [redacted] The three sites are near Hungnam [redacted] on the east coast and near Sukchon [redacted] and Pyongyang [redacted] 25X1 [redacted] on the west coast. The Pyongyang site is shown in Figure 2. 25X1

5. Possible expansion of the Ground Control Intercept (GCI) portion of the North Korean air warning system was also observed during 1972. Prior to 1972, a total of seven BAR LOCK radars had been identified in North Korea. ELINT information obtained prior to 1972 indicated that at least six of these sites -- Yonpo-ri, Songnim, Pyongyang, Sunchon, Chasan, and Taecheon -- formed the North Korean GCI net.<sup>2/</sup> On photography [redacted] 25X1 an additional BAR LOCK radar site (Figure 3) was identified at Koksan [redacted] 25X1 The BAR LOCK and SIDE NET radars previously reported to be at the Taecheon site were replaced by a TOKEN radar [redacted] 25X1 Subsequent coverage of [redacted] 25X1 revealed that the TOKEN radar at Sinanju had been replaced by a BAR LOCK radar and a height finder radar. These replacements possibly indicate a change in the structure of the GCI net.

6. Currently, eight TOKEN radar sites, deployed in a peripheral pattern, have been identified on photography of North Korea. Two of these sites were identified during 1972: one near Kosong [redacted] 25X1 and the other near Kowon [redacted] The Kosong site is shown in Figure 4. Another TOKEN radar, referred to in the preceding paragraph, was moved to Taecheon.

7. The proximity of the BAR LOCK radar sites to the three MIG-21 fighter airfields in North Korea is shown in Figure 5.

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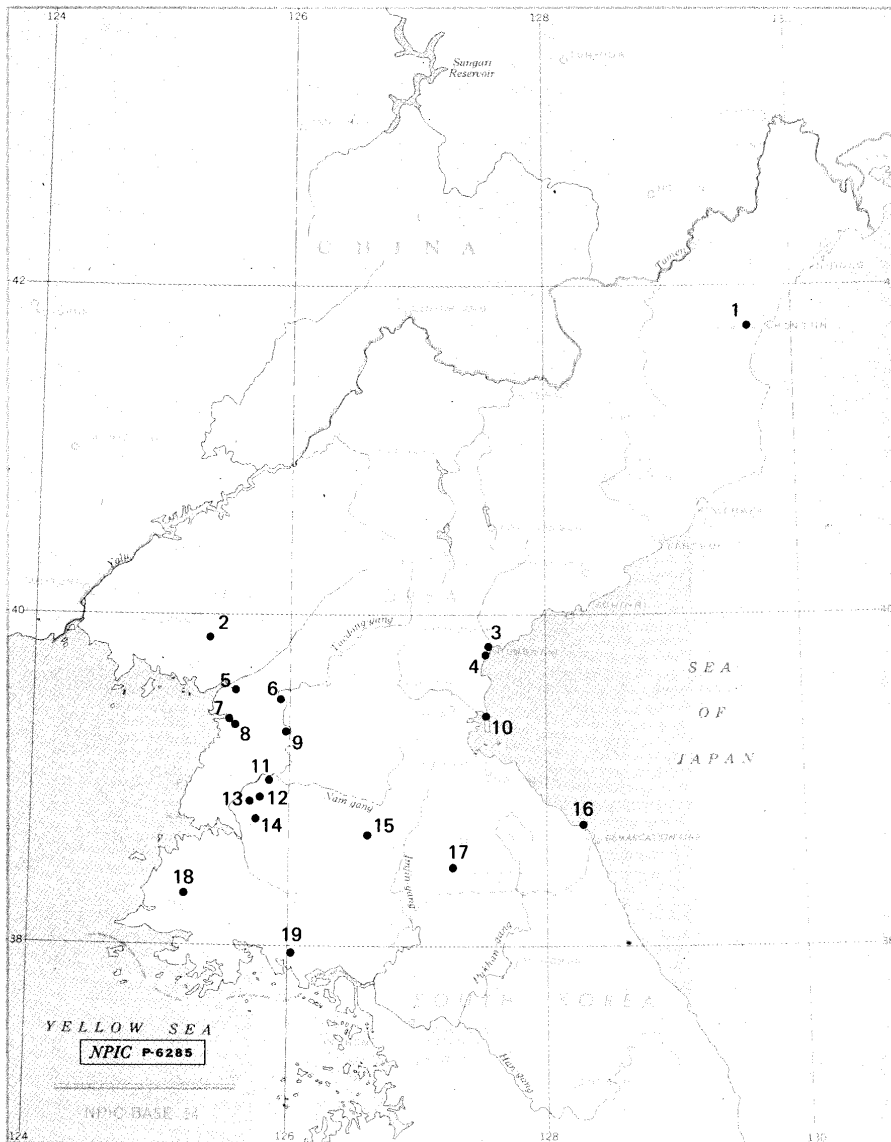


FIGURE 1. AW RADAR FACILITIES, NORTH KOREA  
(Item numbers keyed to Table 1)

Table 1. Air Warning/Early Warning Radar Facilities in North Korea  
(Item numbers keyed to Figure 1)

Item	Installation	Location	Radars Observed	
1	Nanam AW Radar Fac [REDACTED]	41-42-40N 129-39-20E	TOKEN	25X1
2	Taecheon AW Radar Fac [REDACTED]	39-49-10N 125-24-00E	TOKEN	25X1
3	Yonno-ri AW Radar Fac [REDACTED]	39-48-18N 127-32-16E	BAR LOCK	25X1
4	Hungnam Prob AW Radar Fac TALL KING [REDACTED]	39-46-47N 127-32-22E	TALL KING	25X1
5	Sinanju AW Radar Fac [REDACTED]	39-33-00N 125-30-40E	BAR LOCK Height Finder	25X1
6	Sunchon AW Radar Fac [REDACTED]	39-28-35N 125-54-08E	BAR LOCK SIDE NET	25X1
7	Sukchon AW Radar Fac TALL KING [REDACTED]	39-22-05N 125-29-00E	TALL KING	25X1

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Table 1. (Continued)

<u>Item</u>	<u>Installation</u>	<u>Location</u>	<u>Radars Observed</u>	
8	Sukchon AW Radar Fac [REDACTED]	39-22-10N 125-30-20E	TOKEN	25X1
9	Chasan AW Radar Fac [REDACTED]	39-17-57N 125-56-35E	BAR LOCK SIDE NET	25X1
10	Kowon AW Radar Fac [REDACTED]	39-24-20N 127-31-13E	TOKEN	25X1
11	Pyongyang Air Warning Radar Fac [REDACTED]	38-59-40N 125-49-52E	BAR LOCK FLAT FACE SQUAT EYE	Poss SPOON REST Poss KNIFE REST Poss Height Fir25X1
12	Pyongyang AW Radar Fac [REDACTED]	38-54-19N 125-43-13E	TOKEN	25X1
13	Pyongyang AW Radar Fac TALL KING [REDACTED]	38-51-48N 125-38-48E	TALL KING	25X1
14	Songnim AW Radar Fac [REDACTED]	38-45-05N 125-42-10E	BAR LOCK	25X1
15	Koksan AW Radar Fac [REDACTED]	38-39-15N 126-32-58E	BAR LOCK Prob Height Finder	25X1
16	Kosong AW Radar Fac [REDACTED]	38-44-20N 128-16-33E	TOKEN	25X1
17	Pyonggang AW Radar Fac [REDACTED]	38-28-18N 127-13-45E	BAR LOCK SPOON REST KNIFE REST	25X1
18	Changyon-un AW Radar Fac [REDACTED]	38-19-42N 125-10-45E	TOKEN	25X1
19	Chongdan AW Radar Fac [REDACTED]	37-56-08N 125-56-20E	TOKEN	25X1

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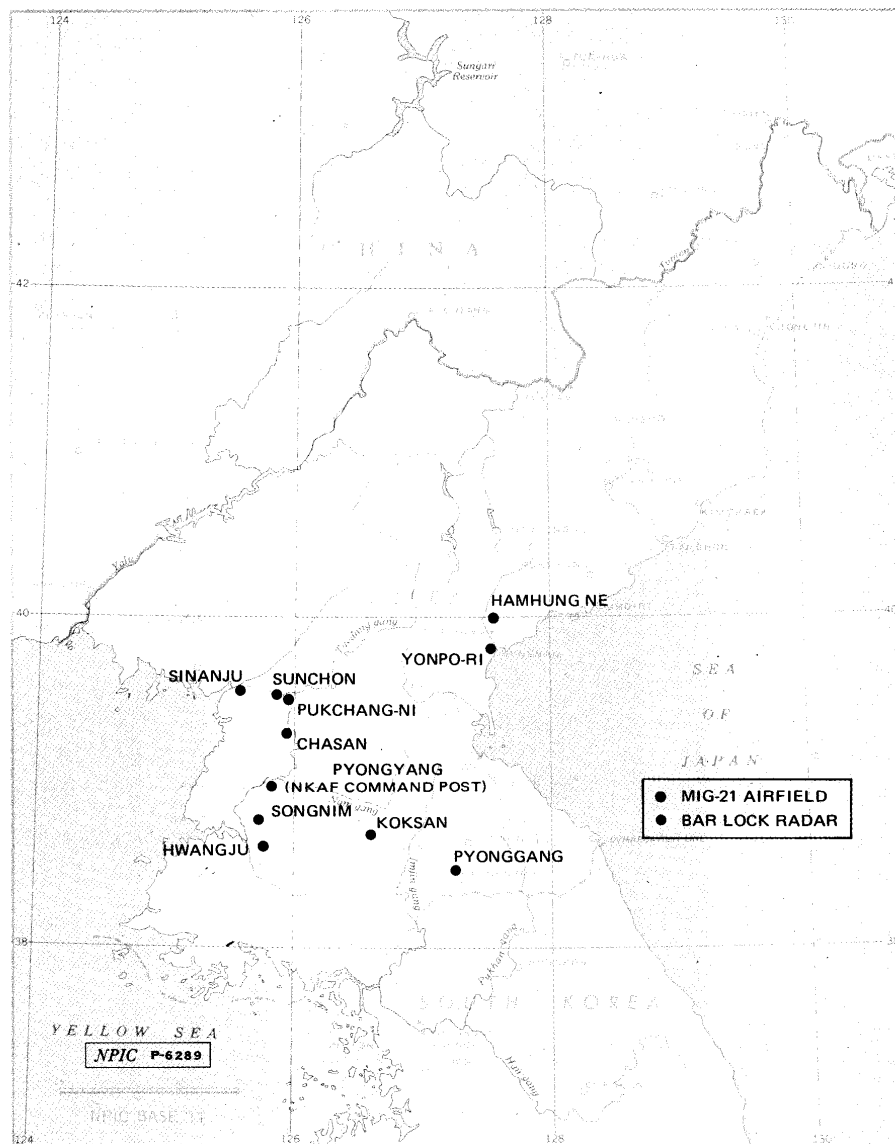


FIGURE 5. BAR LOCK RADAR FACILITIES, NORTH KOREA

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REFERENCES

1. NPIC. [redacted] PIR-043/71, Air Warning Radar Facilities, North Korea. Sep 71 (TOP SECRET RUFF)

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